## Tsu-Wei Chou

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108<br/>papers17,039<br/>citations53<br/>h-index112<br/>g-index112<br/>ext. papers7<br/>ext. citations6.88<br/>avg, IFL-index

#	Paper	IF	Citations
108	Advances in the science and technology of carbon nanotubes and their composites: a review. <i>Composites Science and Technology</i> , <b>2001</b> , 61, 1899-1912	8.6	3903
107	Nanocomposites in context. Composites Science and Technology, 2005, 65, 491-516	8.6	1273
106	A structural mechanics approach for the analysis of carbon nanotubes. <i>International Journal of Solids and Structures</i> , <b>2003</b> , 40, 2487-2499	3.1	1050
105	Sensors and actuators based on carbon nanotubes and their composites: A review. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1227-1249	8.6	750
104	Aligned multi-walled carbon nanotube-reinforced composites: processing and mechanical characterization. <i>Journal Physics D: Applied Physics</i> , <b>2002</b> , 35, L77-L80	3	519
103	Dominant role of tunneling resistance in the electrical conductivity of carbon nanotubeBased composites. <i>Applied Physics Letters</i> , <b>2007</b> , 91, 223114	3.4	518
102	Processing-structure-multi-functional property relationship in carbon nanotube/epoxy composites. <i>Carbon</i> , <b>2006</b> , 44, 3022-3029	10.4	493
101	On the elastic properties of carbon nanotube-based composites: modelling and characterization. <i>Journal Physics D: Applied Physics</i> , <b>2003</b> , 36, 573-582	3	477
100	An assessment of the science and technology of carbon nanotube-based fibers and composites. <i>Composites Science and Technology</i> , <b>2010</b> , 70, 1-19	8.6	462
99	State of the art of carbon nanotube fibers: opportunities and challenges. <i>Advanced Materials</i> , <b>2012</b> , 24, 1805-33	24	403
98	Carbon Nanotube Fiber Based Stretchable Wire-Shaped Supercapacitors. <i>Advanced Energy Materials</i> , <b>2014</b> , 4, 1300759	21.8	271
97	Stretchable Wire-Shaped Asymmetric Supercapacitors Based on Pristine and MnO2 Coated Carbon Nanotube Fibers. <i>ACS Nano</i> , <b>2015</b> , 9, 6088-96	16.7	258
96	Fiber Inclination Model of Three-Dimensional Textile Structural Composites. <i>Journal of Composite Materials</i> , <b>1986</b> , 20, 472-484	2.7	254
95	Microstructural Design of Fiber Composites 1992,		248
94	Single-walled carbon nanotubes as ultrahigh frequency nanomechanical resonators. <i>Physical Review B</i> , <b>2003</b> , 68,	3.3	238
93	Graphene-Based Fibers: A Review. Advanced Materials, 2015, 27, 5113-31	24	232
92	One-dimensional micromechanical analysis of woven fabric composites. <i>AIAA Journal</i> , <b>1983</b> , 21, 1714-1	7 <b>21</b> 1	229

Elastic Behavior of Woven Hybrid Composites. <i>Journal of Composite Materials</i> , <b>1982</b> , 16, 2-19	2.7	228	
Some recent advances in the fabrication and design of three-dimensional textile preforms: a review. <i>Composites Science and Technology</i> , <b>2000</b> , 60, 33-47	8.6	218	
Vibrational behaviors of multiwalled-carbon-nanotube-based nanomechanical resonators. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 121-123	3.4	212	
Additive manufacturing of multi-directional preforms for composites: opportunities and challenges. <i>Materials Today</i> , <b>2015</b> , 18, 503-512	21.8	196	
Real-time in situ sensing of damage evolution in advanced fiber composites using carbon nanotube networks. <i>Nanotechnology</i> , <b>2008</b> , 19, 215713	3.4	194	
Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon Nanotubes. <i>Advanced Functional Materials</i> , <b>2009</b> , 19, 123-130	15.6	189	
Mass detection using carbon nanotube-based nanomechanical resonators. <i>Applied Physics Letters</i> , <b>2004</b> , 84, 5246-5248	3.4	177	
Effect of nanotube waviness on the electrical conductivity of carbon nanotube-based composites. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 1445-1452	8.6	171	
Modeling of damage sensing in fiber composites using carbon nanotube networks. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 3373-3379	8.6	147	
Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotube/Poly(vinyl alcohol) Filaments. <i>ACS Applied Materials &amp; Description of the Poly (Vinyl alcohol) Filaments</i> . <i>ACS Applied Materials &amp; Description of the Poly (Vinyl alcohol) Filaments.</i>	<del>79</del> 7	141	
Multiscale modeling of compressive behavior of carbon nanotube/polymer composites. <i>Composites Science and Technology</i> , <b>2006</b> , 66, 2409-2414	8.6	141	
Modeling of elastic buckling of carbon nanotubes by molecular structural mechanics approach. <i>Mechanics of Materials</i> , <b>2004</b> , 36, 1047-1055	3.3	138	
Functionalized Single-Walled Carbon Nanotubes for Carbon Fiber <b>E</b> poxy Composites <b>I</b> <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 17865-17871	3.8	126	
Nonlinear Behavior of Woven Fabric Composites. <i>Journal of Composite Materials</i> , <b>1983</b> , 17, 399-413	2.7	122	
In-Plane Thermal Expansion and Thermal Bending Coefficients of Fabric Composites. <i>Journal of Composite Materials</i> , <b>1983</b> , 17, 92-104	2.7	117	
In situ sensing of impact damage in epoxy/glass fiber composites using percolating carbon nanotube networks. <i>Carbon</i> , <b>2011</b> , 49, 3382-3385	10.4	116	
Processing and electrical properties of carbon nanotube/vinyl ester nanocomposites. <i>Composites Science and Technology</i> , <b>2009</b> , 69, 801-804	8.6	107	
Strain and pressure sensing using single-walled carbon nanotubes. <i>Nanotechnology</i> , <b>2004</b> , 15, 1493-149	63.4	106	
	Some recent advances in the fabrication and design of three-dimensional textile preforms: a review. Composites Science and Technology, 2000, 60, 33-47  Vibrational behaviors of multiwalled-carbon-nanotube-based nanomechanical resonators. Applied Physics Letters, 2004, 84, 121-123  Additive manufacturing of multi-directional preforms for composites: opportunities and challenges. Materials Today, 2015, 18, 503-512  Real-time in situ sensing of damage evolution in advanced fiber composites using carbon nanotube networks. Nanotechnology, 2008, 19, 215713  Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon Nanotubes. Advanced Functional Materials, 2009, 19, 123-130  Mass detection using carbon nanotube-based nanomechanical resonators. Applied Physics Letters, 2004, 84, 5246-5248  Effect of nanotube waviness on the electrical conductivity of carbon nanotube-based composites. Composites Science and Technology, 2008, 68, 1445-1452  Modeling of damage sensing in infer composites using carbon nanotube networks. Composites Science and Technology, 2008, 68, 3373-3379  Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotube/Poly(vinyl alcohol) Filaments. ACS Applied Materials & Damp: Interfaces, 2017, 9, 4788-48  Multiscale modeling of compressive behavior of carbon nanotube/polymer composites. Composites Science and Technology, 2006, 66, 2409-2414  Modeling of elastic buckling of carbon nanotubes by molecular structural mechanics approach. Mechanics of Materials, 2004, 36, 1047-1055  Functionalized Single-Walled Carbon Nanotubes for Carbon FiberEpoxy Composites. Journal of Composite Materials, 1983, 17, 399-413  In-Plane Thermal Expansion and Thermal Bending Coefficients of Fabric Composites. Journal of Composite Materials, 1983, 17, 92-104  In situ sensing of impact damage in epoxy/glass fiber composites using percolating carbon nanotube networks. Carbon, 2011, 49, 3382-3385  Processing and electrical properties of carbon nanot	Some recent advances in the fabrication and design of three-dimensional textile preforms: a review. Composites Science and Technology, 2000, 60, 33-47  Vibrational behaviors of multi-wiled-carbon-nanotube-based nanomechanical resonators. Applied Physics Letters, 2004, 84, 121-123  Additive manufacturing of multi-directional preforms for composites: opportunities and challenges. Materials Today, 2015, 18, 503-512  Real-time in situ sensing of damage evolution in advanced fiber composites using carbon nanotube networks. Nanotechnology, 2008, 19, 215713  Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon Nanotubes. Advanced Functional Materials, 2009, 19, 123-130  Mass detection using carbon nanotube-based nanomechanical resonators. Applied Physics Letters, 2004, 84, 5246-5248  Effect of nanotube waviness on the electrical conductivity of carbon nanotube-based composites. Composites Science and Technology, 2008, 68, 1445-1452  Modeling of damage sensing in fiber composites using carbon nanotube networks. Composites Science and Technology, 2008, 68, 3373-3379  Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotube/Poly(viny alcohol) Filaments. ACS Applied Materials Ramp, Interfaces, 2017, 9, 4788-4797  Multiscale modeling of compressive behavior of carbon nanotube/polymer composites. Composites Science and Technology, 2006, 66, 2409-2414  Modeling of elastic buckling of carbon nanotubes by molecular structural mechanics approach. 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Materials Today, 2015, 18, 503-512  Real-time in situ sensing of damage evolution in advanced fiber composites using carbon nanotube networks. Nanotechnology, 2008, 19, 215713  Real-time in situ sensing of damage evolution in advanced fiber composites using carbon nanotube networks. Nanotechnology, 2008, 19, 215713  Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon 156  Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon 156  Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon 156  Sensing of Damage Mechanisms in Fiber-Reinforced Composites under Cyclic Loading using Carbon 156  Real-time in situ sensing of the characteristic properties of the composites using carbon nanotube-based composites. Science and Technology, 2008, 68, 1445-1452  Effect of nanotube waviness on the electrical conductivity of carbon nanotube-based composites. Science and Technology, 2008, 68, 3373-3379  Modeling of damage sensing in Fiber composites using carbon nanotube networks. Composites Science and Technology, 2008, 68, 3373-3379  Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotube/Polymyl alcohol Filaments. ACS Applied Materials 8amp; interfaces, 2017, 9, 4788-4797  Highly Sensitive Wearable Textile-Based Humidity Sensor Made of High-Strength, Single-Walled Carbon Nanotubes by molecular structural mechanics approach. Mechanics of Materials, 2004, 36, 1047-1055  Functionalized Single-Walled Carbon Nanotubes for Carbon FiberEipoxy Composites. Journal of Physical Chemistry C, 2007

73	The effective interfacial shear strength of carbon nanotube fibers in an epoxy matrix characterized by a microdroplet test. <i>Carbon</i> , <b>2012</b> , 50, 1271-1279	10.4	104
72	Coupled carbon nanotube network and acoustic emission monitoring for sensing of damage development in composites. <i>Carbon</i> , <b>2009</b> , 47, 1381-1388	10.4	103
71	Carbon Nanotube Fiber Based Stretchable Conductor. Advanced Functional Materials, 2013, 23, 789-793	15.6	88
70	Carbon nanotube fibers for advanced composites. <i>Materials Today</i> , <b>2012</b> , 15, 302-310	21.8	87
69	Elastic properties of single-walled carbon nanotubes in transverse directions. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	87
68	Experimental Confirmation of the Theory of Elastic Moduli of Fabric Composites. <i>Journal of Composite Materials</i> , <b>1985</b> , 19, 443-458	2.7	87
67	Damage sensing of adhesively-bonded hybrid composite/steel joints using carbon nanotubes. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 1183-1189	8.6	85
66	Modeling of 3-D Angle-Interlock Textile Structural Composites. <i>Journal of Composite Materials</i> , <b>1989</b> , 23, 890-911	2.7	85
65	Carbon nanotube-based health monitoring of mechanically fastened composite joints. <i>Composites Science and Technology</i> , <b>2008</b> , 68, 2557-2561	8.6	77
64	Continuum percolation of nanocomposites with fillers of arbitrary shapes. <i>Applied Physics Letters</i> , <b>2007</b> , 90, 174108	3.4	71
63	A three-dimensional model of electrical percolation thresholds in carbon nanotube-based composites. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 223106	3.4	70
62	The properties of dry-spun carbon nanotube fibers and their interfacial shear strength in an epoxy composite. <i>Carbon</i> , <b>2011</b> , 49, 1752-1757	10.4	66
61	Processing and characterization of multi-scale hybrid composites reinforced with nanoscale carbon reinforcements and carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 337-3	344	65
60	Highly conductive polymer composites based on controlled agglomeration of carbon nanotubes. <i>Carbon</i> , <b>2010</b> , 48, 2649-2651	10.4	62
59	A comparative study of damage sensing in fiber composites using uniformly and non-uniformly dispersed carbon nanotubes. <i>Carbon</i> , <b>2010</b> , 48, 3788-3794	10.4	61
58	Fabrication and characterization of reaction bonded silicon carbide/carbon nanotube composites. Journal Physics D: Applied Physics, 2005, 38, 3962-3965	3	57
57	Damage monitoring in fiber-reinforced composites under fatigue loading using carbon nanotube networks. <i>Philosophical Magazine</i> , <b>2010</b> , 90, 4085-4099	1.6	55
56	Flexible ultra-thin Fe3O4/MnO2 core-shell decorated CNT composite with enhanced electromagnetic wave absorption performance. <i>Composites Part B: Engineering</i> , <b>2018</b> , 144, 111-117	10	54

## (2019-2005)

55	Axial and radial thermal expansions of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	53	
54	Nanotube buckling in aligned multi-wall carbon nanotube composites. <i>Carbon</i> , <b>2004</b> , 42, 3015-3018	10.4	51	
53	Process-microstructure relationships of 2-step and 4-step braided composites. <i>Composites Science and Technology</i> , <b>1996</b> , 56, 235-251	8.6	51	
52	Effect of Fiber Waviness on the Nonlinear Elastic Behavior of Flexible Composites. <i>Journal of Composite Materials</i> , <b>1988</b> , 22, 1004-1025	2.7	51	
51	Sensing of damage and healing in three-dimensional braided composites with vascular channels. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1618-1626	8.6	43	
50	Analytical Characterization of Two-Step Braided Composites. <i>Journal of Composite Materials</i> , <b>1991</b> , 25, 1599-1618	2.7	42	
49	Failure of carbon nanotube/polymer composites and the effect of nanotube waviness. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2009</b> , 40, 1580-1586	8.4	39	
48	Analysis of the entanglements in carbon nanotube fibers using a self-folded nanotube model. <i>Journal of the Mechanics and Physics of Solids</i> , <b>2011</b> , 59, 511-524	5	39	
47	Electromechanical response and failure behaviour of aerogel-spun carbon nanotube fibres under tensile loading. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 6792		37	
46	Microstructural evolution of carbon nanotube fibers: deformation and strength mechanism. <i>Nanoscale</i> , <b>2013</b> , 5, 2002-8	7.7	37	
45	Damage Development and Moduli Reductions in Nicalon Lalcium Aluminosilicate Composites under Static Fatigue and Cyclic Fatigue. <i>Journal of the American Ceramic Society</i> , <b>1993</b> , 76, 1720-1728	3.8	37	
44	A direct electrifying algorithm for backbone identification. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2007</b> , 40, 14679-14686	2	36	
43	High-Strength Single-Walled Carbon Nanotube/Permalloy Nanoparticle/Poly(vinyl alcohol) Multifunctional Nanocomposite Fiber. <i>ACS Nano</i> , <b>2015</b> , 9, 11414-21	16.7	34	
42	Characterization of carbon nanotube fiber compressive properties using tensile recoil measurement. <i>ACS Nano</i> , <b>2012</b> , 6, 4288-97	16.7	34	
41	Elastic wave velocities in single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2006</b> , 73,	3.3	34	
40	Mode I Delamination of a Three-Dimensional Fabric Composite. <i>Journal of Composite Materials</i> , <b>1990</b> , 24, 497-518	2.7	33	
39	Radial deformation and its related energy variations of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2011</b> , 83,	3.3	32	
38	Remotely and Sequentially Controlled Actuation of Electroactivated Carbon Nanotube/Shape Memory Polymer Composites. <i>Advanced Materials Technologies</i> , <b>2019</b> , 4, 1900600	6.8	30	

37	Theoretical studies on the charge-induced failure of single-walled carbon nanotubes. <i>Carbon</i> , <b>2007</b> , 45, 922-930	10.4	30
36	Structure-performance maps of polymeric, metal, and ceramic matrix composites. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , <b>1986</b> , 17, 1547-1559		30
35	Atomistic Modeling of Carbon Nanotube-based Mechanical Sensors. <i>Journal of Intelligent Material Systems and Structures</i> , <b>2006</b> , 17, 247-254	2.3	29
34	Mechanical and electrical response of carbon nanotube-based fabric composites to Hopkinson bar loading. <i>Composites Science and Technology</i> , <b>2011</b> , 71, 616-621	8.6	27
33	Charge-induced strains in single-walled carbon nanotubes. <i>Nanotechnology</i> , <b>2006</b> , 17, 4624-8	3.4	27
32	Structural supercapacitor composites: A review. <i>Composites Science and Technology</i> , <b>2021</b> , 204, 108636	8.6	26
31	Modeling of heat capacities of multi-walled carbon nanotubes by molecular structural mechanics. <i>Materials Science &amp; amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2005</b> , 409, 140-144	5.3	25
30	Electrostatic charge distribution on single-walled carbon nanotubes. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 063103	3.4	24
29	Quantized molecular structural mechanics modeling for studying the specific heat of single-walled carbon nanotubes. <i>Physical Review B</i> , <b>2005</b> , 71,	3.3	23
28	Formicary-like carbon nanotube/copper hybrid nanostructures for carbon fiber-reinforced composites by electrophoretic deposition. <i>Journal of Materials Science</i> , <b>2011</b> , 46, 2359-2364	4.3	22
27	Stress relaxation in carbon nanotube-based fibers for load-bearing applications. <i>Carbon</i> , <b>2013</b> , 52, 347-3	3 <b>5</b> 5.4	21
26	The use of Taguchi optimization in determining optimum electrophoretic conditions for the deposition of carbon nanofiber on carbon fibers for use in carbon/epoxy composites. <i>Carbon</i> , <b>2012</b> , 50, 2853-2859	10.4	21
25	Damage mode characterization of mechanically fastened composite joints using carbon nanotube networks. <i>Composites Part A: Applied Science and Manufacturing</i> , <b>2011</b> , 42, 2003-2009	8.4	19
24	Modeling of carbon nanotube clamping in tensile tests. <i>Composites Science and Technology</i> , <b>2005</b> , 65, 2407-2415	8.6	19
23	Elastic Response and Effect of Transverse Cracking in Woven Fabric Brittle Matrix Composites. Journal of the American Ceramic Society, <b>1995</b> , 78, 783-792	3.8	19
22	Synthesis and failure behavior of super-aligned carbon nanotube film wrapped graphene fibers. <i>Carbon</i> , <b>2014</b> , 72, 250-256	10.4	18
21	Carbon nanotube film based multifunctional composite materials: an overview. <i>Functional Composites and Structures</i> , <b>2020</b> , 2, 022002	3.5	17
20	Microstructural Design of Advanced Multi-Step Three-Dimensional Braided Preforms. <i>Journal of Composite Materials</i> , <b>1994</b> , 28, 1180-1201	2.7	17

## (1994-2015)

19	A durability study of carbon nanotube fiber based stretchable electronic devices under cyclic deformation. <i>Carbon</i> , <b>2015</b> , 94, 352-361	10.4	16
18	Wet-spinning assembly and in situ electrodeposition of carbon nanotube-based composite fibers for high energy density wire-shaped asymmetric supercapacitor. <i>Journal of Colloid and Interface Science</i> , <b>2020</b> , 569, 298-306	9.3	15
17	Mechanical and electrochemical performance of hybrid laminated structural composites with carbon fiber/ solid electrolyte supercapacitor interleaves. <i>Composites Science and Technology</i> , <b>2020</b> , 196, 108234	8.6	15
16	Mechanical Behavior and Structural Evolution of Carbon Nanotube Films and Fibers Under Tension: A Coarse-Grained Molecular Dynamics Study. <i>Journal of Applied Mechanics, Transactions ASME</i> , <b>2013</b> , 80,	2.7	13
15	PRECISE DETERMINATION OF BACKBONE STRUCTURE AND CONDUCTIVITY OF 3D PERCOLATION NETWORKS BY THE DIRECT ELECTRIFYING ALGORITHM. <i>International Journal of Modern Physics C</i> , <b>2009</b> , 20, 423-433	1.1	11
14	Mechanics of Textile Composites <b>2000</b> , 719-761		10
13	Microcracking and Elastic Moduli Reductions in Unidirectional Nicalon-CAS Composite Under Cyclic Fatigue Loading. <i>Ceramic Engineering and Science Proceedings</i> ,881-888	0.1	10
12	A continuum mechanics model of multi-buckling in graphene ßubstrate systems with randomly distributed debonding. <i>International Journal of Solids and Structures</i> , <b>2016</b> , 97-98, 510-519	3.1	8
11	Braided structures <b>1999</b> , 217-240		7
10	Electromechanical behavior of carbon nanotube fibers under transverse compression. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 085303	3	5
9	Modeling of Carbon Nanotubes and Their Composites <b>2006</b> , 55-65		5
8	Carbon nanotube fibers spun from a sizing material. <i>Applied Physics Letters</i> , <b>2014</b> , 105, 261903	3.4	3
7	Multifunctional composites with self-sensing capabilities: carbon nanotube-based networks 2007,		2
6	Carbon-Nanotube-Based Composites and Damage Sensing <b>2010</b> , 159-281		2
5	Multifunctional continuous fibers based on aligned carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , <b>2016</b> , 49, 461002	3	1
4	Simplified Greens functions for mode I and II cracks. <i>International Journal of Fracture</i> , <b>1989</b> , 39, 301-321	2.3	1
3	1.2 Carbon Nanotube Based Fibers <b>2018</b> , 13-40		
2	Numerical Analysis for Design of Composite Specimens for Through-the-Thickness Tensile Measurements. <i>Journal of Composite Materials</i> , <b>1994</b> , 28, 1032-1056	2.7	

Performance Optimization of Woven Fabric Composites for Printed Circuit Boards. *Materials Research Society Symposia Proceedings*, **1986**, 72, 163